



Docket No.: 272924US0PCT

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

ATTORNEYS AT LAW

RE: Application Serial No.: 10/536,880
Applicants: Satomi ONOUE, et al.
Filing Date: May 27, 2005
For: PEPTIDES AND MEDICINAL COMPOSITIONS
CONTAINING THE SAME
Group Art Unit:
Examiner:

SIR:

Attached hereto for filing are the following papers:

Notification of Defective Response (Applicant Copy)
Response to Notification of Defective Response (3 pp.)
Substitute Sequence Listing (paper, 14 pp.)
Raw Sequence Listing Error Report (7 pp.)
Computer-Readable Sequence Listing (diskette)

Our check in the amount of \$0.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.
Norman F. Oblon

Charles J. Andres Jr., Ph.D.
Registration No. 57,537

Customer Number

22850

(703) 413-3000 (phone)
(703) 413-2220 (fax)

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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/536,880	Satomi Onoue	272924US0PCT

INTERNATIONAL APPLICATION NO.	
PCT/JP03/14924	
I.A. FILING DATE	PRIORITY DATE
11/21/2003	11/27/2002

22850
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

CONFIRMATION NO. 6411

371 FORMALITIES LETTER



OC000000018478692

Date Mailed: 04/10/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Priority Document
- Copy of the International Application filed on 05/27/2005
- English Translation of the IA filed on 05/27/2005
- Copy of the International Search Report filed on 05/27/2005
- Preliminary Amendments filed on 05/27/2005
- Information Disclosure Statements filed on 05/27/2005
- Biochemical Sequence Diskette filed on 02/21/2006
- Oath or Declaration filed on 05/27/2005
- Request for Immediate Examination filed on 05/27/2005
- U.S. Basic National Fees filed on 05/27/2005
- Priority Documents filed on 05/27/2005

RECEIVED: 4/10/06
OBLON, SPIVAK, McCLELLAND
MAIER & NEUSTADT, P.C.

DOCKETING DEPT.

Initials/Date Docketed: 4/10/06Type of Resp(s): ResponseDue Date(s): 5/10/06 (N-E)

Applicant's response filed 02/21/2006 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 12/19/2005 have not been completed.

- This application clearly fails to comply with the requirements of 37 CFR. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing", an initial paper or compact disc copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the application.** Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

pass

- This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c) Applicant must provide an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

ANITA D JOHNSON

Telephone: (703) 308-9140 EXT 226

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/536,880	PCT/JP03/14924	272924US0PCT

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/536,880
Source: PU
Date Processed by STIC: 3/20/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



PCT

RAW SEQUENCE LISTING

DATE: 03/20/2006

PATENT APPLICATION: US/10/536,880

TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

3 <110> APPLICANT: Onoue, Satomi
4 Endo, Kousuke
5 Matsumoto, Asami
7 <120> TITLE OF INVENTION: PEPTIDES AND MEDICINAL COMPOSITIONS CONTAINING THE SAME
9 <130> FILE REFERENCE: 272924US0PCT
11 <140> CURRENT APPLICATION NUMBER: 10/536,880
12 <141> CURRENT FILING DATE: 2005-05-27
14 <150> PRIOR APPLICATION NUMBER: PCT/JP03/14924
15 <151> PRIOR FILING DATE: 2003-11-21
17 <150> PRIOR APPLICATION NUMBER: JP 2002-344523
18 <151> PRIOR FILING DATE: 2002-11-27
20 <160> NUMBER OF SEQ ID NOS: 34
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 27
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial
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30 <223> OTHER INFORMATION: Synthetic Peptide
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35 <222> LOCATION: (5)..(5)
36 <223> OTHER INFORMATION: Xaa = Val or Ile
38 <220> FEATURE:
39 <221> NAME/KEY: MISC_FEATURE
40 <222> LOCATION: (8)..(8)
41 <223> OTHER INFORMATION: Xaa = Asp, Glu or Ala
43 <220> FEATURE:
44 <221> NAME/KEY: MISC_FEATURE
45 <222> LOCATION: (9)..(9)
46 <223> OTHER INFORMATION: Xaa = Asn or Ser
48 <220> FEATURE:
49 <221> NAME/KEY: MISC_FEATURE
50 <222> LOCATION: (11)..(11)
51 <223> OTHER INFORMATION: Xaa = Thr or Ser
53 <220> FEATURE:
54 <221> NAME/KEY: MISC_FEATURE
55 <222> LOCATION: (13)..(13)
56 <223> OTHER INFORMATION: Xaa = Leu or Tyr
58 <220> FEATURE:
59 <221> NAME/KEY: MISC_FEATURE
60 <222> LOCATION: (15)..(15)
61 <223> OTHER INFORMATION: Xaa = Lys or Arg

Does Not Comply
Corrected Diskette Needed

pg 2-3, 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/536,880

DATE: 03/20/2006
TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt
Output Set: N:\CRF4\03202006\J536880.raw

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64 <221> NAME/KEY: MISC_FEATURE
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66 <223> OTHER INFORMATION: Xaa = Leu or nLeu *Nle?*
68 <220> FEATURE:
69 <221> NAME/KEY: MISC_FEATURE
70 <222> LOCATION: (20)..(20)
71 <223> OTHER INFORMATION: Xaa = Lys or Arg
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74 <221> NAME/KEY: MISC_FEATURE
75 <222> LOCATION: (21)..(21)
76 <223> OTHER INFORMATION: Xaa = Lys or Arg
78 <220> FEATURE:
79 <221> NAME/KEY: MISC_FEATURE
80 <222> LOCATION: (26)..(26)
81 <223> OTHER INFORMATION: Xaa = Ile or Val
83 <220> FEATURE:
84 <221> NAME/KEY: misc_feature
85 <222> LOCATION: (27)..(27)
86 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
88 <400> SEQUENCE: 1
W--> 90 His Ser Asp Ala Xaa Phe Thr Xaa Xaa Tyr Xaa Arg Xaa Arg Xaa Gln
91 1 5 10 15
W--> 94 Xaa Ala Val Xaa Xaa Tyr Leu Ala Ala Xaa Xaa
95 20 25
98 <210> SEQ ID NO: 2
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108 <221> NAME/KEY: MOD_RES
109 <222> LOCATION: (28)..(28)
110 <223> OTHER INFORMATION: Amidation
112 <400> SEQUENCE: 2
114 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
115 1 5 10 15
118 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
119 20 25
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123 <211> LENGTH: 27
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Synthetic Peptide
131 <220> FEATURE:
132 <221> NAME/KEY: MOD_RES
133 <222> LOCATION: (27)..(27)

*If so, please use "Nle",
instead, per representation
in the sequence lists.*

RAW SEQUENCE LISTING

DATE: 03/20/2006

PATENT APPLICATION: US/10/536,880

TIME: 12:16:22

Input Set : A:\272924USOPCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

134 <223> OTHER INFORMATION: Amidation
 136 <400> SEQUENCE: 3
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 139 1 5 10 15
 142 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
 143 20 25
 146 <210> SEQ ID NO: 4
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 152 <223> OTHER INFORMATION: Synthetic Peptide
 155 <220> FEATURE:
 156 <221> NAME/KEY: MOD_RES
 157 <222> LOCATION: (38)..(38)
 158 <223> OTHER INFORMATION: Amidation
 160 <400> SEQUENCE: 4
 162 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 163 1 5 10 15
 166 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys
 167 20 25 30
 170 Gln Arg Val Lys Asn Lys
 171 35
 174 <210> SEQ ID NO: 5
 175 <211> LENGTH: 31
 176 <212> TYPE: PRT
 C--> 177 <213> ORGANISM: Artificial
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 181 <221> NAME/KEY: MOD_RES
 182 <222> LOCATION: (31)..(31)
 183 <223> OTHER INFORMATION: Amidation
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 187 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Arg Gln
 188 1 5 10 15
 191 Leu Ala Val Arg Arg Tyr Leu Asn Ser Ile Leu Asn Gly Arg Arg
 192 20 25 30
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 196 <211> LENGTH: 30
 197 <212> TYPE: PRT
 198 <213> ORGANISM: Artificial
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 201 <223> OTHER INFORMATION: Synthetic Peptide
 204 <220> FEATURE:
 205 <221> NAME/KEY: MOD_RES
 206 <222> LOCATION: (30)..(30)
 207 <223> OTHER INFORMATION: Amidation
 209 <400> SEQUENCE: 6
 211 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Arg Gln
 212 1 5 10 15

Artificial
needs explanation in 2207-2237
section

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/536,880

DATE: 03/20/2006

TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

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215 Leu Ala Val Arg Arg Tyr Leu Ala Ala Val Leu Gly Arg Arg
216          20          25          30
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230 <222> LOCATION: (38)..(38)
231 <223> OTHER INFORMATION: Amidation
233 <400> SEQUENCE: 7
235 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Arg Gln
236 1          5          10          15
239 Leu Ala Val Arg Arg Tyr Leu Ala Ala Val Leu Gly Arg Arg Tyr Arg
240          20          25          30
243 Gln Arg Val Arg Asn Arg
244          35
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249 <212> TYPE: PRT
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253 <223> OTHER INFORMATION: Synthetic Peptide
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257 <221> NAME/KEY: MOD_RES
258 <222> LOCATION: (25)..(25)
259 <223> OTHER INFORMATION: Amidation
261 <400> SEQUENCE: 8
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264 1          5          10          15
267 Met Ala Val Lys Lys Tyr Leu Asn Ser
268          20          25
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282 <222> LOCATION: (17)..(17)
283 <223> OTHER INFORMATION: Oxidation
285 <400> SEQUENCE: 9
287 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
288 1          5          10          15
291 Met Ala Val Lys Lys Tyr Leu Asn Ser
292          20          25

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RAW SEQUENCE LISTING

DATE: 03/20/2006

PATENT APPLICATION: US/10/536,880

TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

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305 <221> NAME/KEY: MOD_RES
306 <222> LOCATION: (23)..(23)
307 <223> OTHER INFORMATION: Amidation
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312 1 5 10 15
315 Leu Ala Val Lys Lys Tyr Leu
316 20
319 <210> SEQ ID NO: 11
320 <211> LENGTH: 23
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Synthetic Peptide
328 <220> FEATURE:
329 <221> NAME/KEY: MOD_RES
330 <222> LOCATION: (23)..(23)
331 <223> OTHER INFORMATION: Amidation
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339 Leu Ala Val Arg Arg Tyr Leu
340 20
343 <210> SEQ ID NO: 12
344 <211> LENGTH: 28
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349 <223> OTHER INFORMATION: Synthetic Peptide
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354 <222> LOCATION: (28)..(28)
355 <223> OTHER INFORMATION: Amidation
357 <400> SEQUENCE: 12
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360 1 5 10 15
363 Leu Ala Val Lys Lys Tyr Leu Ala Ala Ile Leu Asn
364 20 25
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368 <211> LENGTH: 30
369 <212> TYPE: PRT
370 <213> ORGANISM: Artificial

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/536,880

DATE: 03/20/2006
TIME: 12:16:23

Input Set : A:\272924US0PCT.ST25.txt
Output Set: N:\CRF4\03202006\J536880.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5,8,9,11,13,15,17,20,21,26,27

Seq#:17; Xaa Pos. 17

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28

Seq#:29,30,31,32,33,34

VERIFICATION SUMMARY

DATE: 03/20/2006

PATENT APPLICATION: US/10/536,880

TIME: 12:16:23

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16

L:177 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5

L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16

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